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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/023,430	12/14/2001	Carlos J.R.P. Augusto	VAN-109	VAN-109 7234	
20028 75	590 03/23/2004		EXAMINER		
LAW OFFICE OF BARRY R LIPSITZ			LEUNG, QUYEN PHAN		
755 MAIN STREET MONROE, CT 06468			ART UNIT	PAPER NUMBER	
			2828		

DATE MAILED: 03/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)	pplicant(s)			
Office Action Summary		10/023,43))	AUGUSTO, CARLOS J.R.P.				
		Examiner		Art Unit				
		Quyen P. L		2828				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, and period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by strepty received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no even n. a reply within the statu eriod will apply and will tatute, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONED	nely filed s will be considered timel the mailing date of this c O (35 U.S.C. § 133).				
Status								
1)[Responsive to communication(s) filed on							
2a) <u></u> □	This action is FINAL . 2b)	This action is no	on-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠ 5)□ 6)⊠ 7)□	4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by the Exan	niner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the		= : :		• •			
Priority (under 35 U.S.C. § 119							
12)[a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Buse the attached detailed Office action for a	nents have beer nents have beer priority documer reau (PCT Rule	n received. n received in Application nts have been receive 17.2(a)).	on No ed in this National	Stage			
Attach	*/a\							
Attachmen 1) Notice	e of References Cited (PTO-892)		4) Interview Summary ((PTO-413)				
2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date 4/15/2002.) 3/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	O-152)			

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the substrate, active layers, barrier layers, contact means, photo-detector, image-sensing and optical communications, light-valve, solid state reflection displays and optical communications, solar cell, light emitter, superlattices, MIS, MOS, and emission displays must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 1-58. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6.

4. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "contact means are selected according to band-alignment and work-function...involved in photon-absorption and photon-emission optic-electronic transistions" in the last 4 lines. It is unclear what further structural limitations are being implied by that recitation. Claims 2-21 are rejected for the same reason.

Each of claims 5, 6, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20 recites "adapted..." in line 1. It is unclear what further structural limitations are being implied by those claims.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Ishikawa et al (5,696,389). Ishikawa et al discloses the claimed invention. Note figure 23 which illustrates an optoelectronic device comprising a substrate (301), a number of different active layers (304,308,313), a number of different barrier layers (303,305, 307, 309, 312,314), and contact means (315,316,318,320).

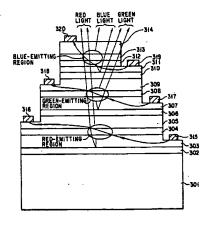


FIG. 23

Regarding claims 5, 6, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20 it has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. *In re Hutchison*, 69 USPQ 138.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571)272-1943. The examiner can normally be reached on 9-5:30, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (571)272-1941. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quyen P. Leung Primary Examiner Art Unit 2828